FIG. 1

```
┌─────────────────────────────────────────┐
│              100                         │
│  RECEIVE TCP/SYN CONNECTION REQUEST      │
└─────────────────────────────────────────┘
                   │
                   ▼
┌─────────────────────────────────────────┐
│              102                         │
│     RETURN TCP/SYN ACKNOWLEDGEMENT       │
└─────────────────────────────────────────┘
                   │
                   ▼
┌─────────────────────────────────────────┐
│              104                         │
│      RECEIVE TCP ACKNOWLEDGEMENT         │
└─────────────────────────────────────────┘
                   │
                   ▼
┌─────────────────────────────────────────┐
│              106                         │
│  DETERMINE TCP PORT NUMBER FROM REQUEST  │
└─────────────────────────────────────────┘
                   │
                   ▼
┌─────────────────────────────────────────┐
│              108                         │
│  DETERMINE REQUESTING HOST ID; LOCATE    │
│  HOST CONTROL BLOCK ASSOCIATED WITH      │
│  THE PORT                                │
└─────────────────────────────────────────┘
```

110
FETCH FOR THIS PORT NO.
M = MAX. NO. OF CONNECTIONS,
P = CONTROLLING CONNECTION PERCENTAGE,
A = NUMBER OF ACTIVE CONNECTIONS A

112
I = NO. OF AVAILABLE CONNECTIONS = M - A

114
NO. OF CONNECTIONS ASSIGNED TO
REQ'ING HOST=> $P*I$? — NO

116
ACCEPT
CONNECTION
. A = A +1.

118
GOTO A (FIG.2)

EXIT

A

202
CONSTRAINED STATE (I <= X% OF M) ?

NO

YES

204
QOS POLICY FOR REQ'ING HOST ALLOW CONNECTION ?

NO

YES

206
ALLOW CONNECTION (A = A +1)

208
REJECT CONNECTION

EXIT